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NPIC/R-1020/62

May 1962

This report supersedes CIA/PIC/JR-1016/61, Nuclear Research Installation Near Canton, China, dated May 1961, copies of which should be destroyed.

PHOTOGRAPHIC INTERPRETATION REPORT

RADIO BROADCAST STATION NEAR CANTON, CHINA



ARMY



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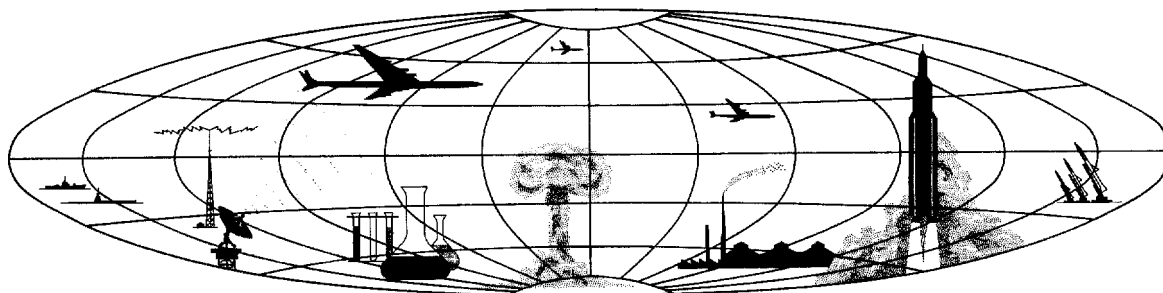


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RADIO BROADCAST STATION NEAR CANTON, CHINA

25X1D

An installation near Canton, China, that was previously reported to be a nuclear research installation has been identified from photography as a medium-frequency, high-power radio broadcast station. The station is at 23-24N 113-14E, 19 nautical miles north of Canton. Construction under way in [REDACTED] appeared near completion in [REDACTED]. Facilities include two antenna arrays (one omnidirectional and one directive) and a centrally located control and support area (Figure 1). The station is similar to others, identified from photography, near Foochow/Nan-t'ai and Chin-chiang. 1/

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The omnidirectional antenna array, north-northwest of the control and support area, is composed of a guyed vertical radiator and tuning house, situated at the center of a buried circular counterpoise. The radiator tower is approximately 200 feet high. The counterpoise is composed of an inner circle and an outer ring. The inner circle is

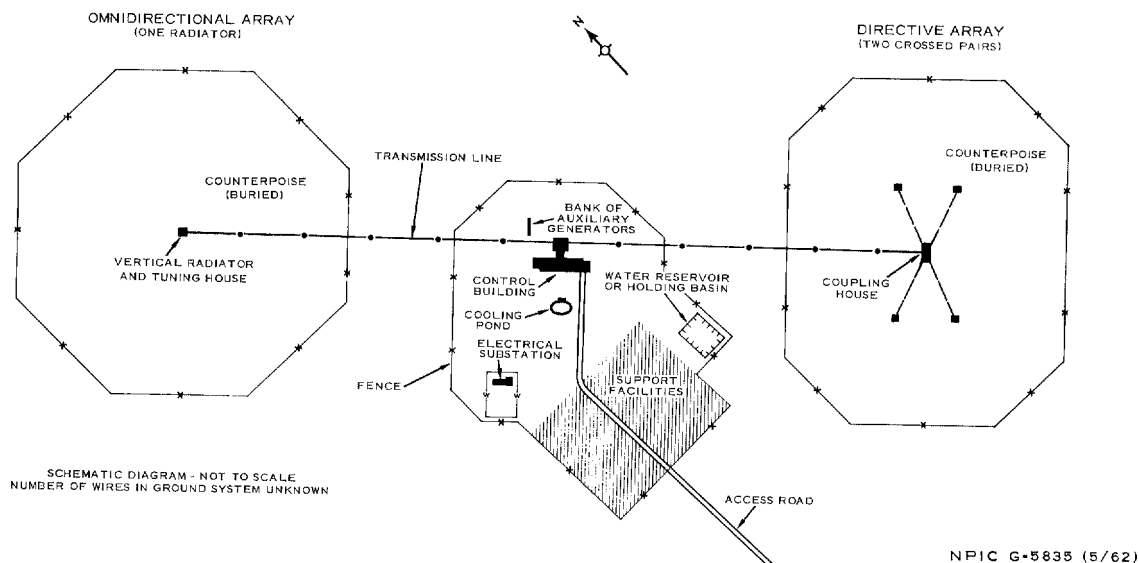


FIGURE 1. RADIO BROADCAST STATION NEAR CANTON, CHINA.

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presumably a buried screen grid, since no cable scarring is observed. The outer ring is made up of buried cables, arranged radially. A transmission line from the control building leads to the tuning house.

The directive array, east-southeast of the control and support area, is composed of two crossed pairs of guyed vertical radiators of equal height, each with its own counterpoise and tuning house. The radiators appear shorter than that of the omnidirectional array, although their height cannot be determined. The counterpoises have the same design as that of the single radiator, but are smaller in diameter. A transmission line from the control and support area leads to a coupling house in the center of the counterpoise group.

The control facilities in the control and support area include a large T-shaped control building which houses the transmitters and switching facilities, an electrical substation, a bank of auxiliary generators, a large cooling pond, utility and maintenance buildings, and a water reservoir or holding basin. Support facilities include ten administrative, housing, and maintenance structures.

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25X1D

REFERENCES

PHOTOGRAPHY



DOCUMENTS

1. Air. DPIR Electronics (K) No 6, Radio Broadcasting Facilities, Fu-chou/Nan-t'ai, China, and Chin-chiang, China, May 55 (SECRET)

REQUIREMENT

NPIC. PC 56-2 (SECRET/Noform)

NPIC PROJECT

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